

split

Work Order ID 60737 -2

Wednesday, July 21, 2010 1:38:14 PM



Item ID: D4125-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Sump

Start Date: 7/21/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 7/26/2010 Req'd Qty: 2.00



Customer:

Reference:

PRELIMINARY ISSUE

Approvals: Process Plan: MK

Date: 10-7-21

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D4125

PA4

100



Waterjet

FLOW CNC Waterjet

0.00

0.00

Memo

1-Cut as per Dwg

Dwg Rev: PA4

Prog Rev: PM4

2-Deburr if necessary

10-7-22

Q

110



QC

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

Memo

10-7-22

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 60737**

Wednesday, July 21, 2010 1:38:14 PM



Page 2

Item ID: D4125-1

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Cust Item ID:

Required Date: 7/26/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

120



QC

Quality Control

QC8- Inspect parts - second check

0.00 - inspector to pay

Day only

0.00

8/10/12/28

Memo

130



Brake NC

Brake NC

Form as per dwg

0.00

SP 10/07/28

①

0.00

Memo

140



QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00 - inspector to pay

Day only

0.00

8/10/12/28

Memo

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 60737

Wednesday, July 21, 2010 1:38:14 PM



Page 3

Item ID: D4125-1

Accept



Setup Start



Revision ID:

Stop



Item Name: Sump

Start Date: 7/21/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 7/26/2010 Req'd Qty: 2.00



Customer:

Reference:

Run Start



Approvals: Process Plan:

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID Tool # Plan Accept Reject Reject Insp.  
Code Qty Qty Number Stamp

150

Identify as per dwg & Stock Location: Weld. 2

0.00



Packaging

Memo

0.00

Packaging

PD 10.01.28

160

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

to conformity to spec.  
10.01.30

PD 1314

W 10.07.28

POSITIVE RECALL

EFFECTIVE 10.07.28

AUTH W

RELEASED \_\_\_\_\_ DATE \_\_\_\_\_



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, July 21, 2010 1:38:13 PM

Page 1

Work Order ID: 60737



Parent Item: D4125-1



Parent Item Name: Sump

Start Date: 7/21/2010

Required Date: 7/26/2010

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP Rev:A 10.07.21 new issue DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.063		Purchased	No			100	SF	117.2640	0.4887	1.028842			



6061-T6 .063 Sheet



B10-7-22

Location

Loc Qty

Loc Code

MAT21

117.264

113608

117.264

113608

②

2011060  
Majuz

R

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



DART AEROSPACE LTD	Work Order:	60737
Description: Sump	Part Number:	D4125-1
Inspection Dwg: D4125-1 Rev: PA4		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

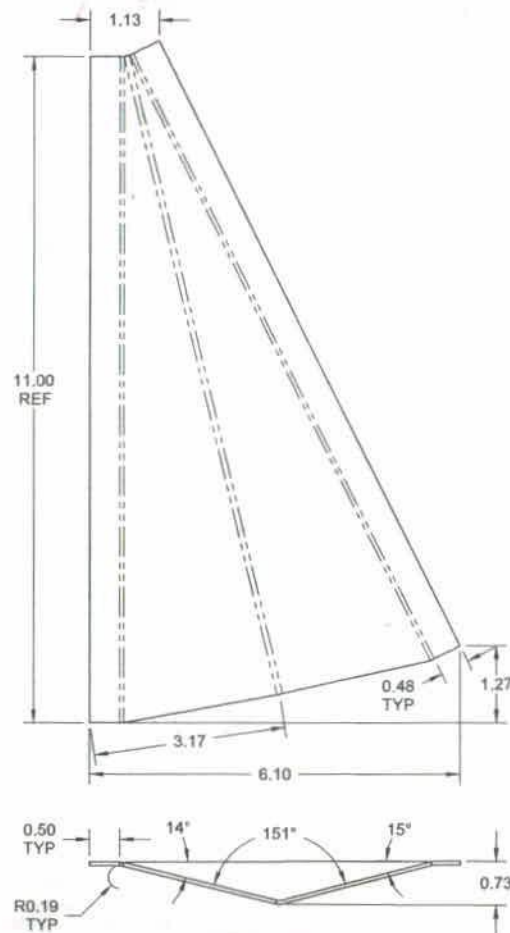
<input checked="" type="checkbox"/>	First Article	<input type="checkbox"/>	Prototype
-------------------------------------	---------------	--------------------------	-----------

[illegible]

Measured by:	B	Audited by:	S	Prototype Approval:	N/A
Date:	10-7-22	Date:	10/12/22	Date:	N/A

Inspector to pay day

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	



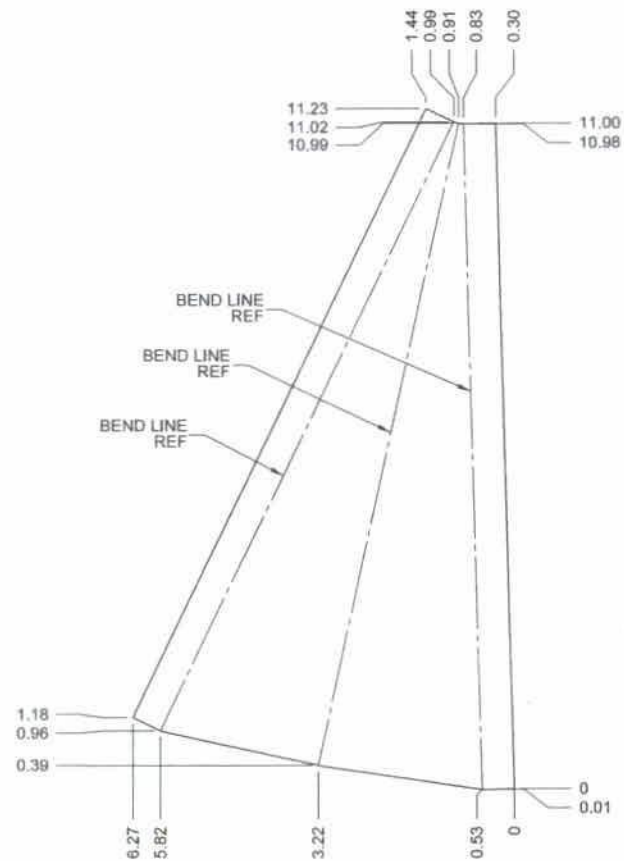
**D4125-1 SUMP**

**PRELIMINARY  
ISSUE**

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA4
MFG. APPR.		<b>D4125</b>	SHEET 2 OF 4
APPROVED		TITLE	SCALE
DE APPR.		<b>SUMP</b>	NTS
DATE	10.07.19	<small>COPYRIGHT © 2019 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR LENDED OR COMMUNICATED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.</small>	

**NOTES:**

- 1) MATERIAL: MADE FROM D4125-1F
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.25 lbs



**PRELIMINARY  
ISSUE**

**D4125-1F**

**NOTES:**

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.063 THICK  
PER QQ-A-250/11 OR AMS-QQ-A-250/11  
OR AMS 4025 OR AMS 4027 OR ASTM B209  
REF DART SPEC M6061T6S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.25 lbs

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. PA4
MFG. APPR.		D4125	SHEET 3 OF 4
APPROVED		TITLE	SCALE
DE APPR.		SUMP	NTS
DATE	10.07.19	<small>COPYRIGHT © 2019 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COMBINED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

# Receiving Report

Date: 10/01/11  
 Supplier: MAGNO

Batch No: M/13608  
 Dart P/O: 11060

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☒  
 QC6 Inspection ☒ 10/01/11 N/A ☒  
 Work Order 1 N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Production/Admin: 10/01/11  
 Date:    
 Received/Costing:    
 Initial:  

Initials of receiver (if shipment OK) Level 12    
 Location







# Purchase Order Receipt Listing

January 11, 2010 8:56:50 AM

Page 1 of 1

All amounts are calculated in domestic currency.

Vendors PO ID PO11060 Receipt Dates from 1/11/2010 to 1/11/2010 All Line Item Types  
Item ID/GL/WOs All Rec. Employees All Currencies  
Sorted by Vendor ID

Purchase Order ID/ Item Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
PO ID/Vendor Name		VC-MAG002	Magna Stainless								
1060	2		M6061T6B00750X00 f		1/11/2010	1/11/2010	80.0000	\$0.25	0.0000	0	\$20.00
	No		.125		80.0000	Stores		\$20.00	0.0000	0	
			6061-T6 Bar .750 x f								
			.125								
			113608								
	3		M6061T6B2.000X01. f		1/11/2010	1/11/2010	40.0000	\$11.08	0.0000	0	\$443.20
	No		250		24.0000	Stores		\$443.20	0.0000	0	
			6061-T6 Bar 2.00 x f								
			.125								
			113608								
	4		M6061T6S.125 sf		1/11/2010	1/11/2010	96.0000	\$5.94	0.0000	0	\$570.00
	No		6061-T6 .125 Sheet sf		96.0000	Stores		\$570.00	0.0000	0	
			113608								
	5		M6061T6S.063 sf		1/11/2010	1/11/2010	288.0000	\$4.53	0.0000	0	\$1,304.99
	No		6061-T6 .063 Sheet sf		256.0000	Stores		\$1,304.99	0.0000	0	
			113608								

Total Received Quantity: 504.0000  
Total Qty to Inspect (PO U/M): 0.0000  
Total Reject Quantity: 0.0000  
Total Receipt Value: \$2,338.19  
Total Balance Due Quantity: 0.0000



magna Stainless

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3  
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105



# PACKING LIST

Page 1 of 1

I021555

TO:  
AEROSPACE LTD  
1 ABERDEEN STREET

SHIP TO:  
DART AEROSPACE LTD  
1270 ABERDEEN STREET

ESBURY , ON  
1K7  
act: CHANTAL

HAWKESBURY , ON  
K6A 1K7  
Ship Terms: PREPAID



SPECIAL INSTRUCTIONS

Currency	Sales Person	Customer Phone	Customer Fax	Customer PO
ADIAN DOLLARS	ERYCK BLAIS	(613) 632-5200	(613) 632-1053	PO11060
as Order	Terms	Ship Via	Date Ordered	Date Required
3590	NET 30 DAYS	NIR:R-557065-1	01/07/10	01/11/10
			Date Shipped	
			01/11/10	

ered	Back Ordered	Unit	Description	Bundle #	Heat #	Shipped
4		PC	ALUMINUM FLATS AFL 6061 T6 1/8" x 3/4" x R/L			
2		PC	20' 9 LB / 4 PC AFL 6061 T6 1-1/4" x 2" x R/L	L026372	07C043	4
			20' 118 LB / 2 PC	L030399	46512	2
3		PC	ALUMINUM SHEET ASH 6061 T6 .125" x 48" x 96"			
6		PC	173 LB / 3 PC ASH 6061 T6 .063" x 48" x 144"	L031565	329280101	3
			261 LB / 6 PC	L025694	K05406A	6
			NO N/A MAT'L			
Approx Weight: 561 LB						

*Per 10/01/11*

: 1 Skids: 1

by: \_\_\_\_\_ Date: \_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

\*\*\*PO REPRINT\*\*\*

Purchase Order ID PO11060

Purchase Order Date 1/07/10

PO Print Date 1/07/10

Page Number 1 of 2

Order From :

MAGNA STAINLESS  
5775 RUE KIERAN  
ST LAURENT, QC H4S 0A3  
CA

VC-MAG002

**FAXED**  
*(Signature)*

Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M6061T6R0.625	6061-T6 Round Bar .625"	1/15/10 Yes	40.00 f	Yours ppd	\$3.8000	\$152.00
		Special Inst: MATERIAL: 6061-T6/651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8/AMS 4117/4128/4115/4116 OR ASTM B211 OR ASTM B221					
	M6061T6B00750X00.125	6061-T6 Bar .750 x .125	1/11/10 Yes	80.00 f	Yours ppd <i>P. 12/1/11</i>	\$0.2500	\$20.00
		Special Inst: MATERIAL SAME AS ABOVE					
	M6061T6B2.000X01.250	6061-T6 Bar 2.00 x 1.25	1/11/10 Yes	24.00 f	Yours ppd <i>Rec 30 P. 12/1/11</i>	\$11.0800	\$265.92
		Special Inst: MATERIAL SAME AS ABOVE					
	M6061T6S.125	6061-T6 .125 Sheet	1/11/10 Yes	96.00 sf	Yours ppd <i>P. 12/1/11</i>	\$5.9375	\$570.00
		Special Inst: MATERIAL: 6061-T6/T62					

1/07/10



**DART**  
aerospaceDart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

\*\*\*PO REPRINT\*\*\*

Purchase Order ID PO11060

Purchase Order Date 1/07/10

PO Print Date 1/07/10

Page Number 2 of 2

## Order From :

VC-MAG002

MAGNA STAINLESS  
5775 RUE KIERAN  
ST LAURENT, QC H4S 0A3  
CA

## Contact Name

Vendor Phone 800 363 6646

Vendor Fax 514 339 1105

Vendor Account Nbr

## Buyer

Chantal Lavoie

## Requisition Nbr

Tax Resale Nbr 10127-2607

Terms Net 30

Currency CAD

FOB

ALUMINUM SHEET  
AS PER QQ-A-250/11 OR AMS-QQ-A-  
250/11 OR AMS 4025  
AMS 4027 OR ASTM B209

5	M6061T6S.063	6061-T6 .063 Sheet	1/11/10 Yes	256.00 sf	Yours ppd ABC 288	\$4.5312 PC 10/01/11	\$1,159.99
		Special Inst:	MATERIAL SAME AS ABOVE				
6	M2024T3S.080	2024-T3 .080 sheet	1/15/10 Yes	196.00 sf	Yours ppd	\$10.9375	\$2,143.75
		Special Inst:	MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-AA-250/4 OR AMS 4037 OR ASTM B209				
7	M7075T6B1.000X1.000	7075 T6 BAR 1.00 x1.00	1/15/10 Yes	12.00 f	Yours ppd	\$16.2500	\$195.00
		Special Inst:	MATERIAL: 7075-T6/T651/T6511/T62 ALUMINUM BAR PER AMS-QQ-A- 225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11				
	M304TS0.750W.049	304 SQ Tube .75x.75x.049W	1/15/10 Yes	100.00 f	Yours ppd	\$3.2500	\$325.00
		Special Inst:	MATERIAL: 304 SEAMLESS SQUARE TUBING NO MILL FINISH				

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

PO Total:

\$4,831.66

Change Nbr: 2

Change Date: 1/07/10

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Novelis Inc.  
1 LAPPAN'S LANE  
P.O. BOX 2000  
KINGSTON, ONTARIO, CANADA K7L4Z5

CERTIFICATION OF PROPERTIES AND  
CHEMICAL ANALYSIS

SOLD TO:  
MANDEL METALS INC  
11400 ADDISON STREET

SHIP TO:  
MANDEL METALS INC  
11400 ADDISON STREET

FRANKLIN PARK IL  
60131

FRANKLIN PARK IL  
60131

PRINT DATE:  
2009/04/17

CUST PO: 02-11832

CUST PART #:

LOAD: H784

PACK: 52844221

COIL:

ALLOY: 6061

TEMPER: T6

GAUGE:

MECHANICAL SPECIFICATIONS:

AMS-QQ-A-250/11-97 ASTM B209-02 AMS4027M

GAUGE LENGTH = 2.00 in

SALES ORDER: 68515340-0010

NET WT: 9237 lbs

WIDTH: 48.000 in

I certify that the materials detailed herein have been tested and that  
documentary evidence of the test or release certificate is on file.

Per

  
Process Leader

Location: FRONT END		UOM	TEMPER	TEST DATE
UTS	T:45.95	ksi	T6	17-APR-2009
YTS	T:38.17	ksi	T6	17-APR-2009
Elongation	T:13	%	T6	17-APR-2009
Tensile Thickness	T:0.0604	in	T6	17-APR-2009
Location: BACK END				
UTS	T:44.08	ksi	T6	17-APR-2009
YTS	T:37.08	ksi	T6	17-APR-2009
Elongation	T:12	%	T6	17-APR-2009
Tensile Thickness	T:0.0609	in	T6	17-APR-2009

Chemistry

\*\*\*\*\* LAYER: 01 \*\*\*\*\*

Al 97.6900 Si 0.5500 Fe 0.4600 Cu 0.2200 Mn 0.0100 Mg 0.8800 Cr 0.1700 Ni 0.0000 Zn 0.0100  
Ti 0.0100 Be 0.0000 Pb 0.0000  
EACH: 0.0000 TOTAL: 0.0000

POC4279